

FIG. 1

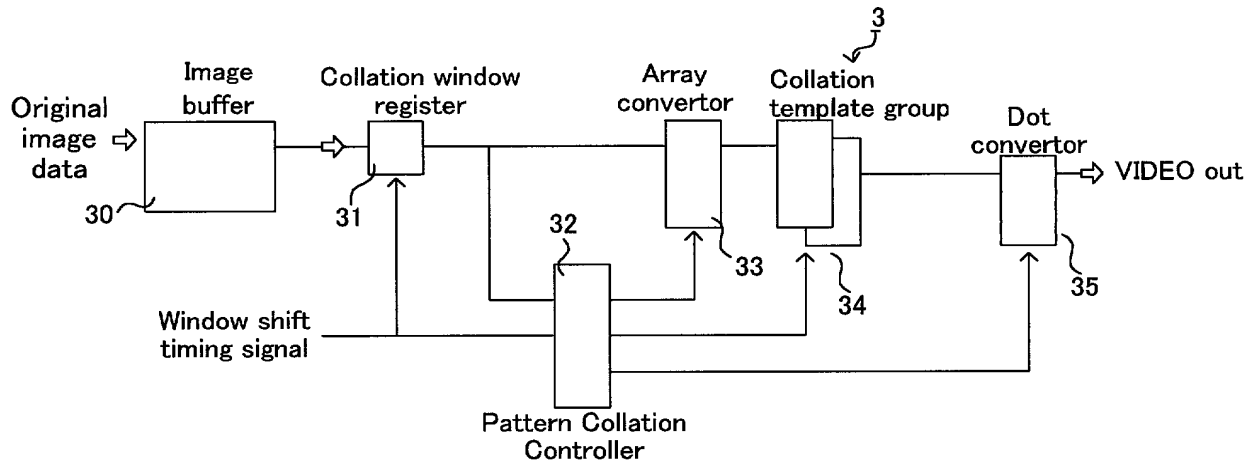


FIG. 2

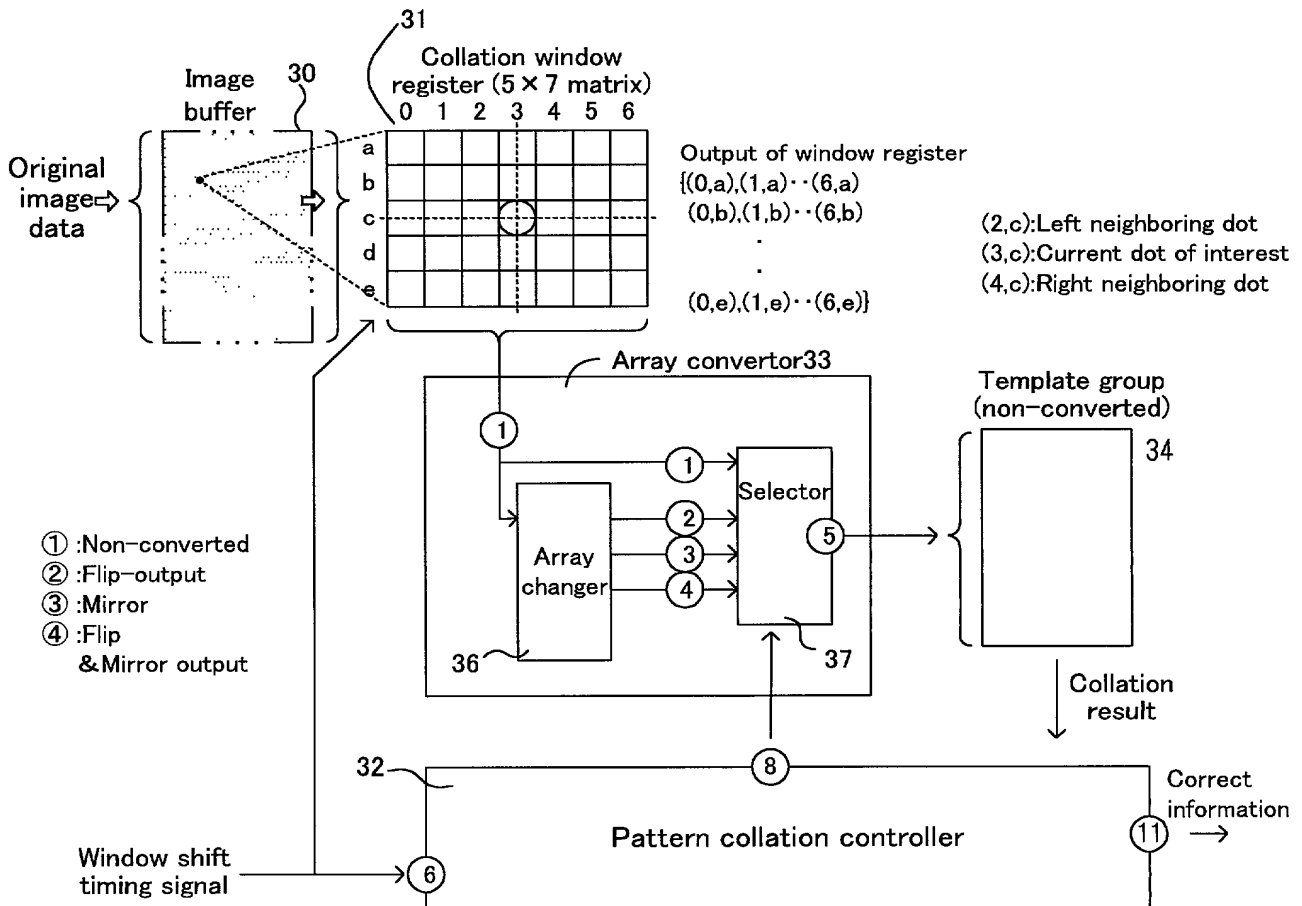


FIG. 3

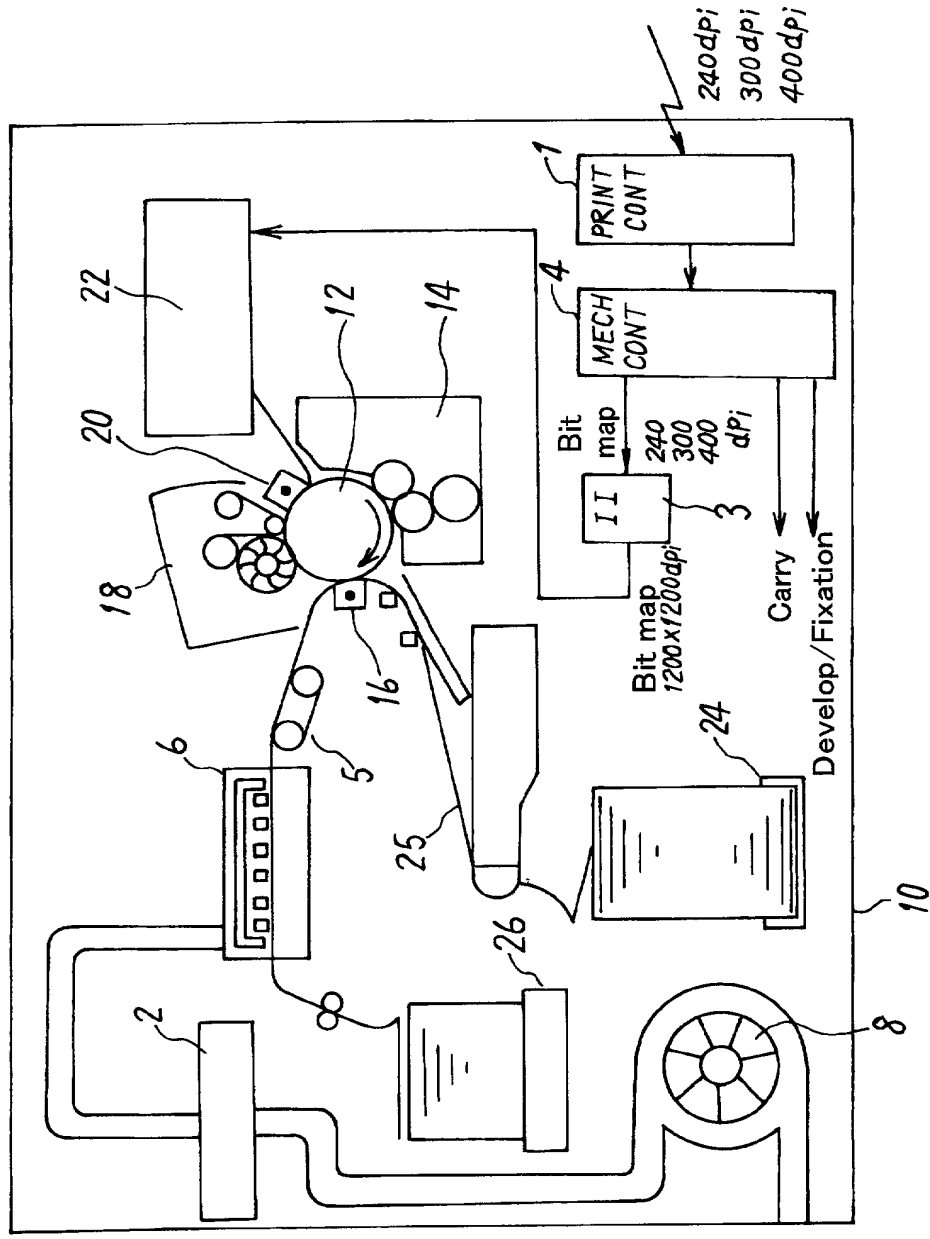


FIG. 4

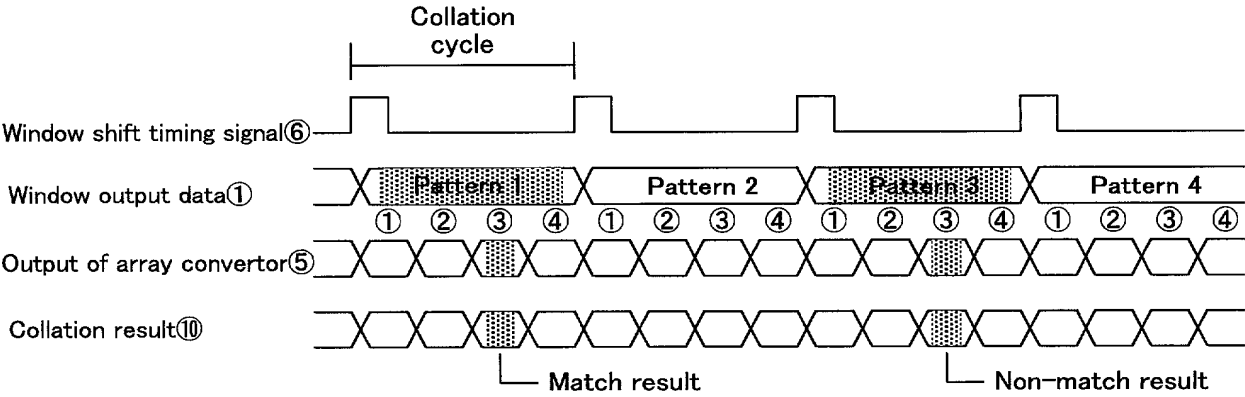


FIG. 5

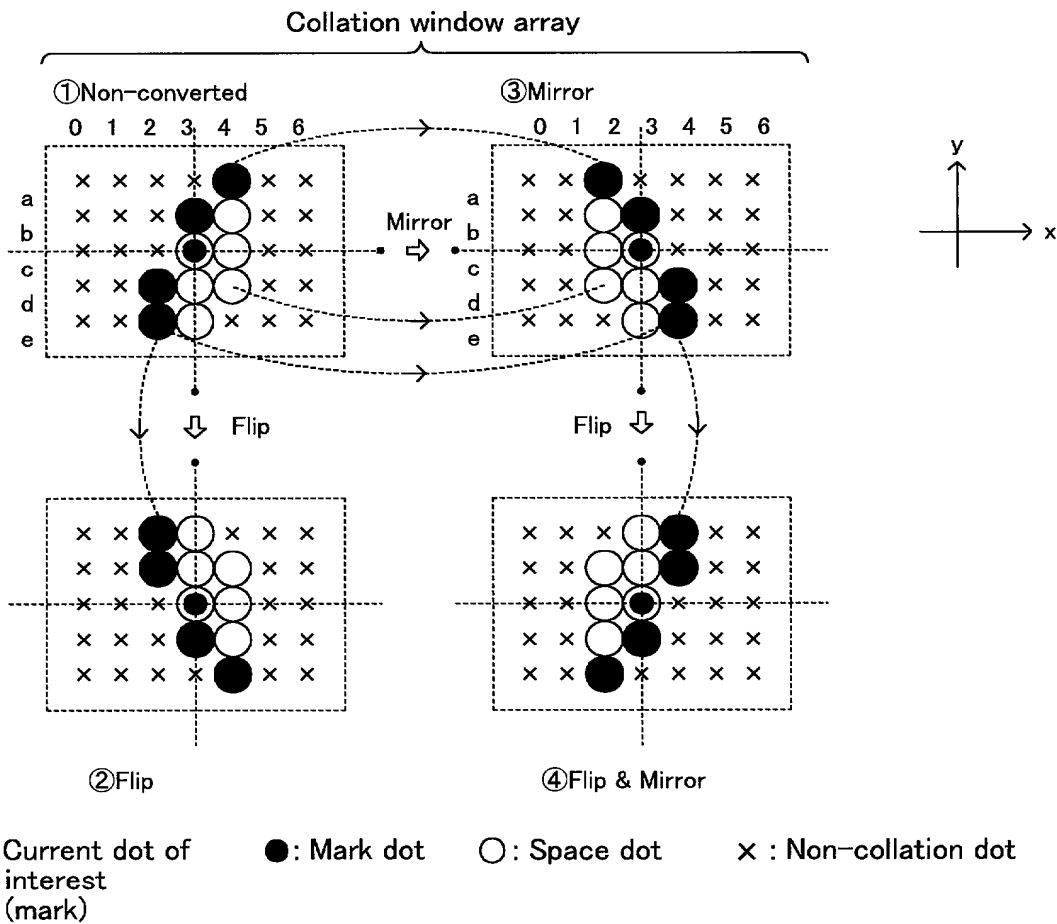


FIG. 6(A)

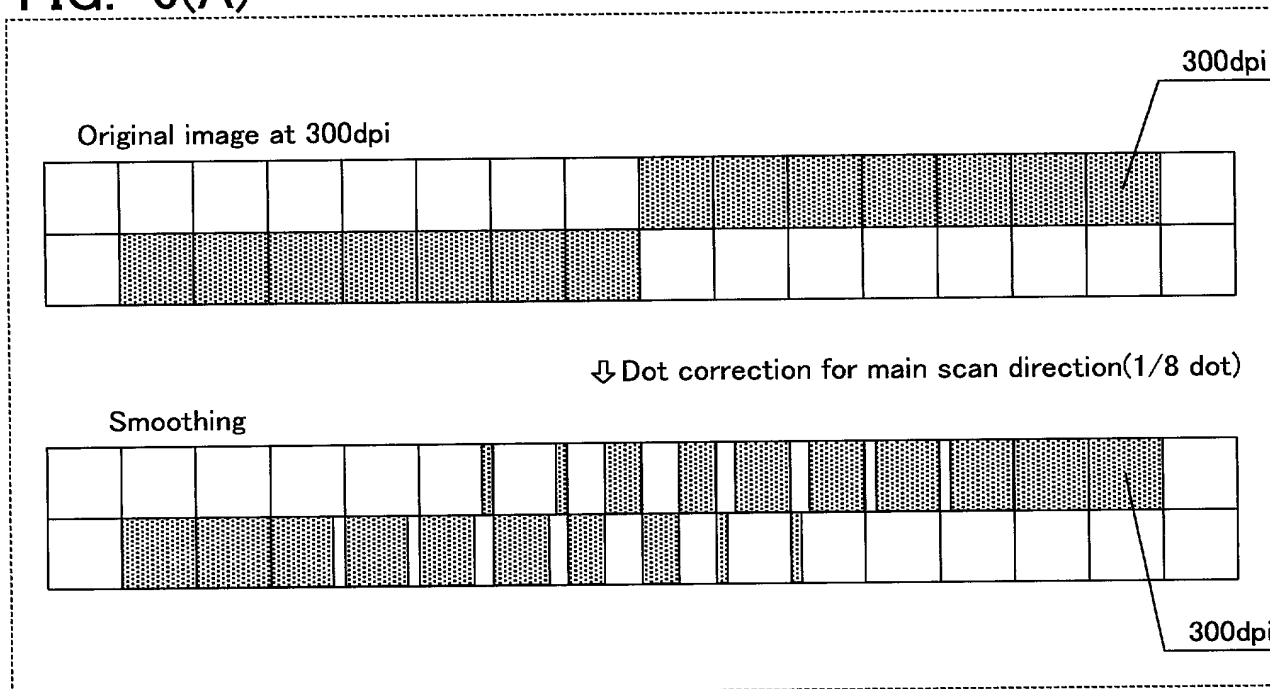


FIG. 6(B)

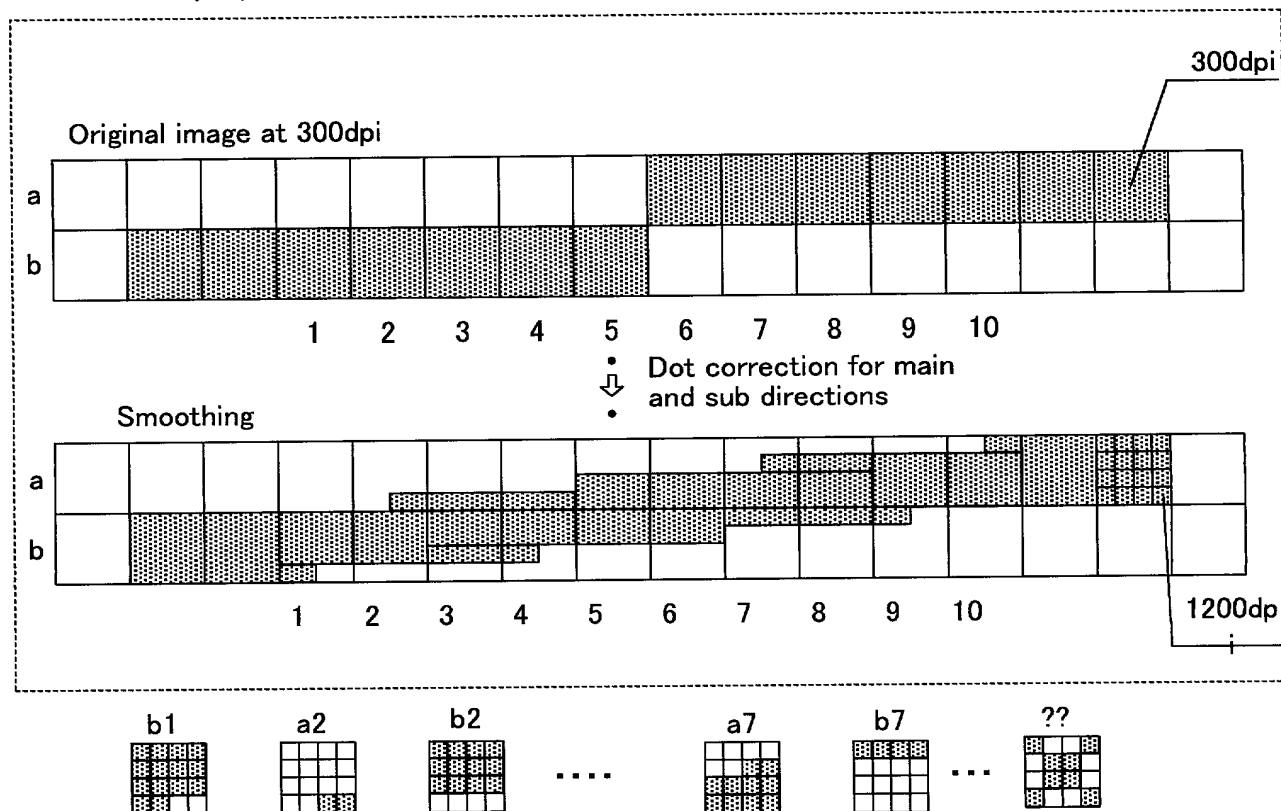


FIG. 7

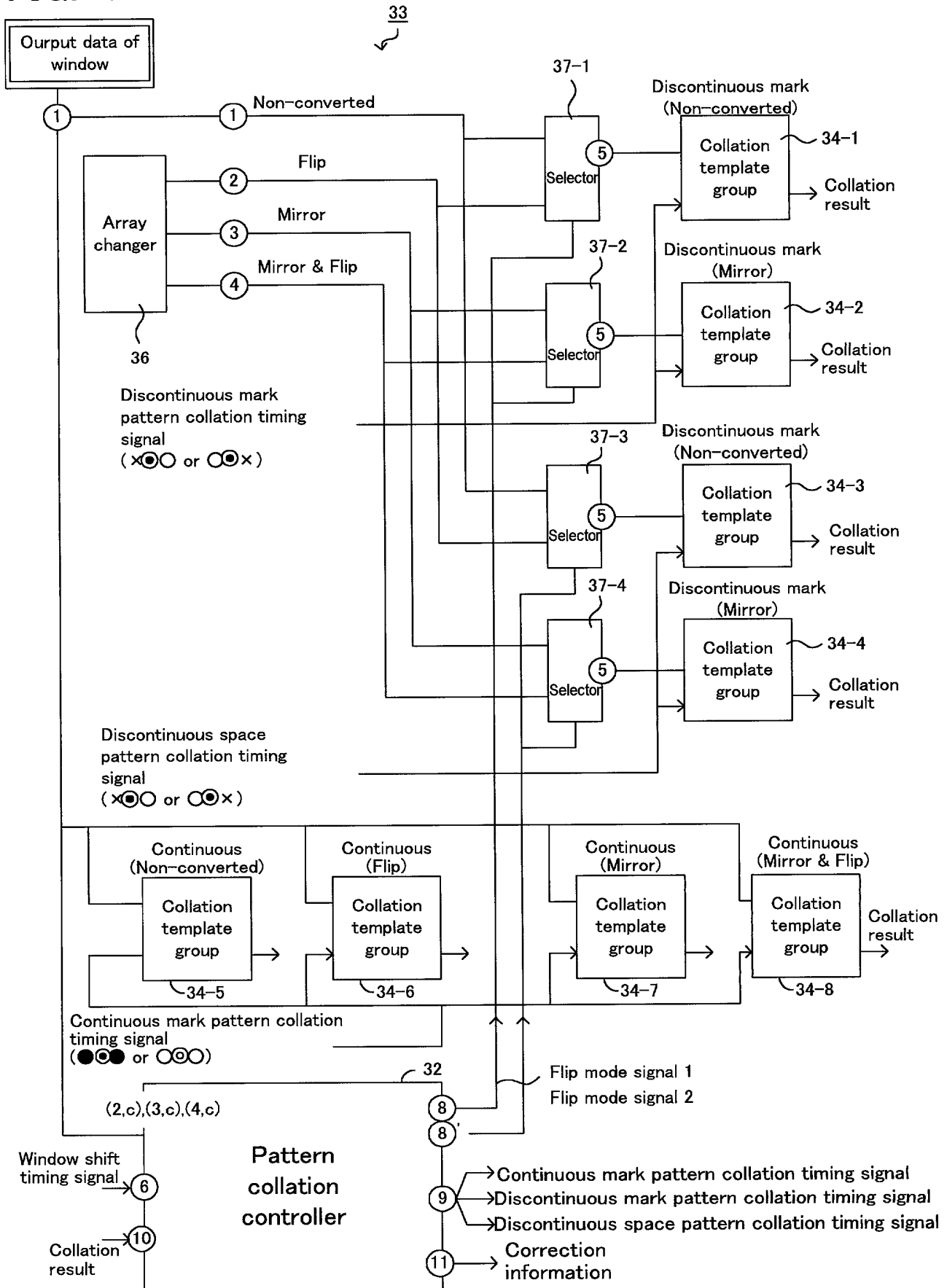
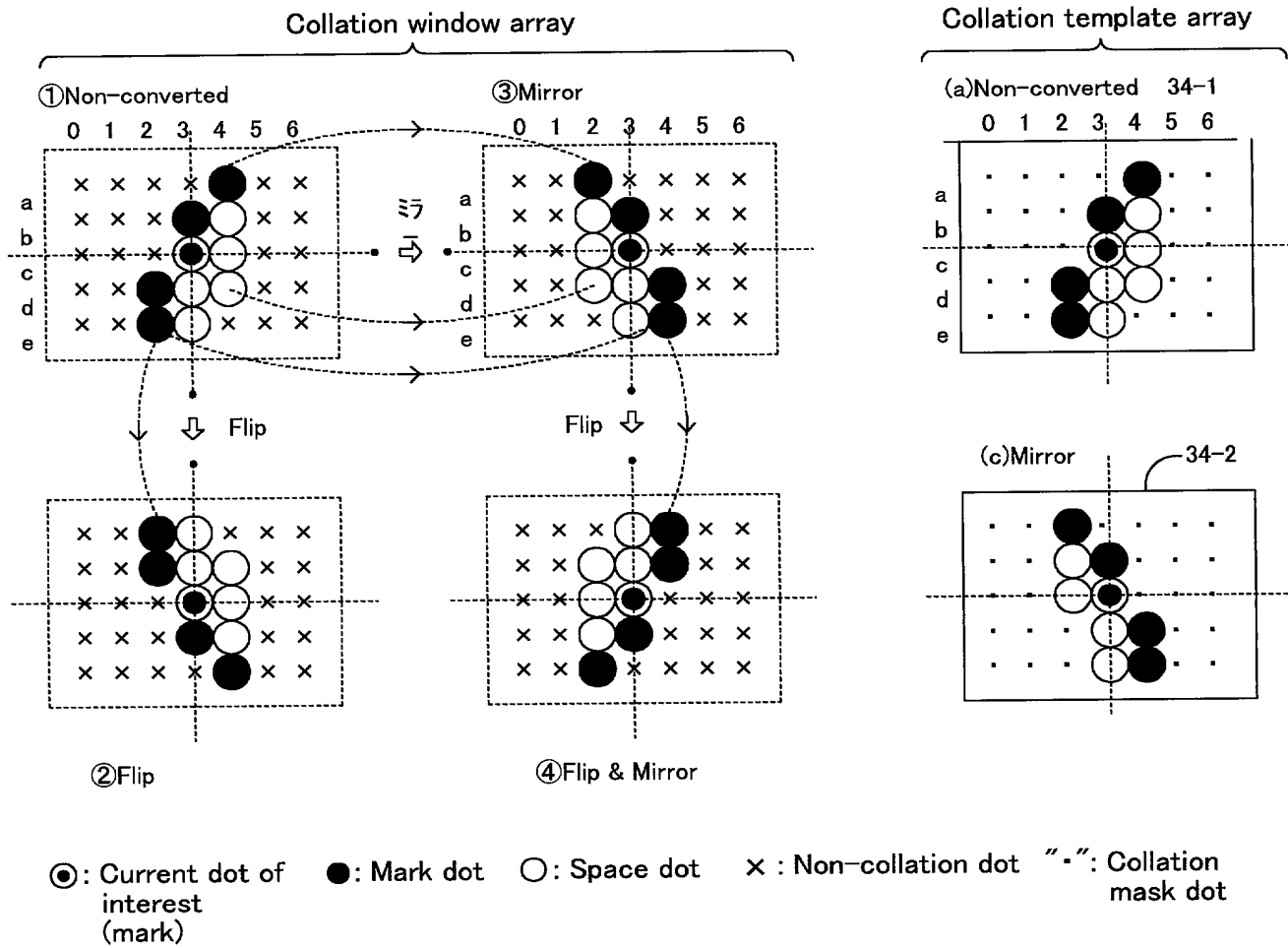


FIG. 8



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FIG. 9

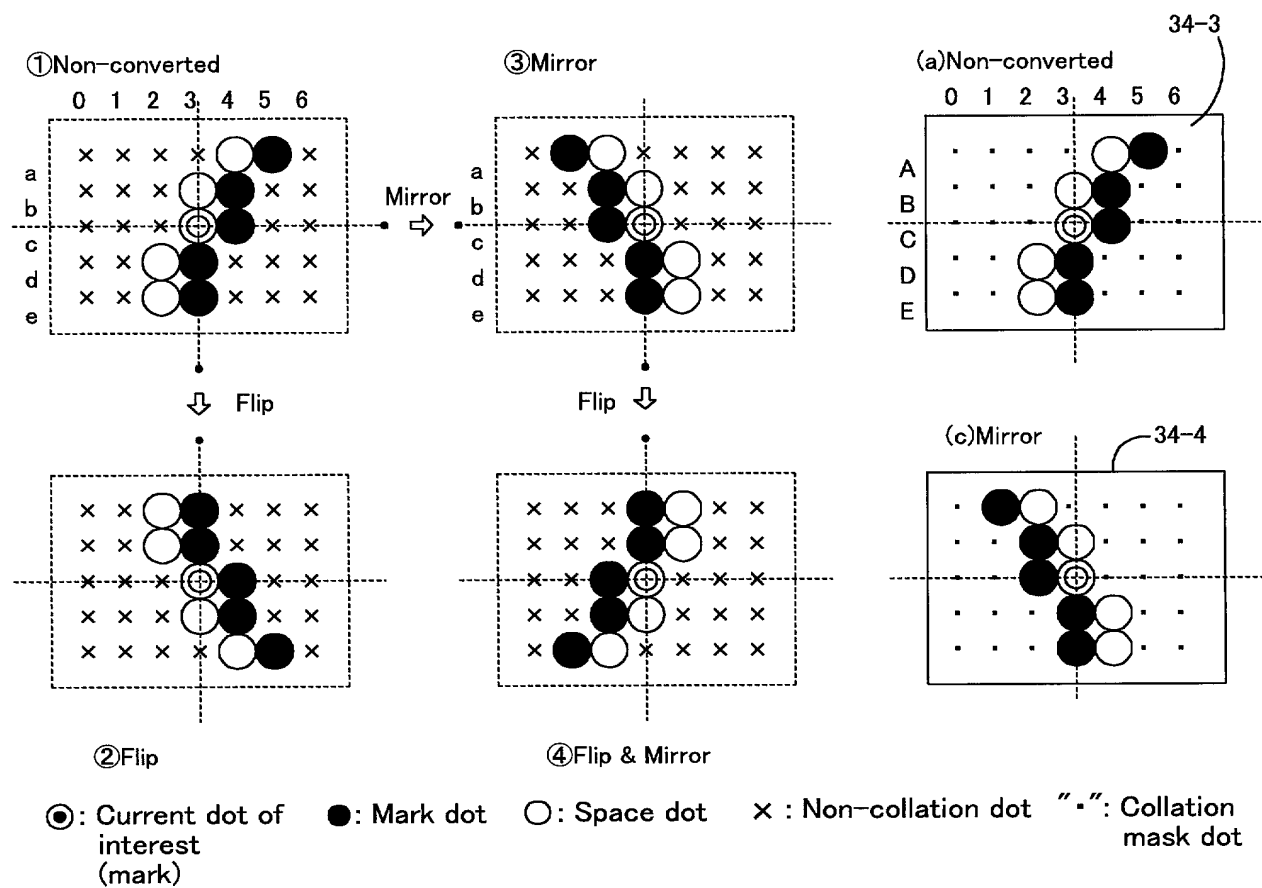


FIG. 10

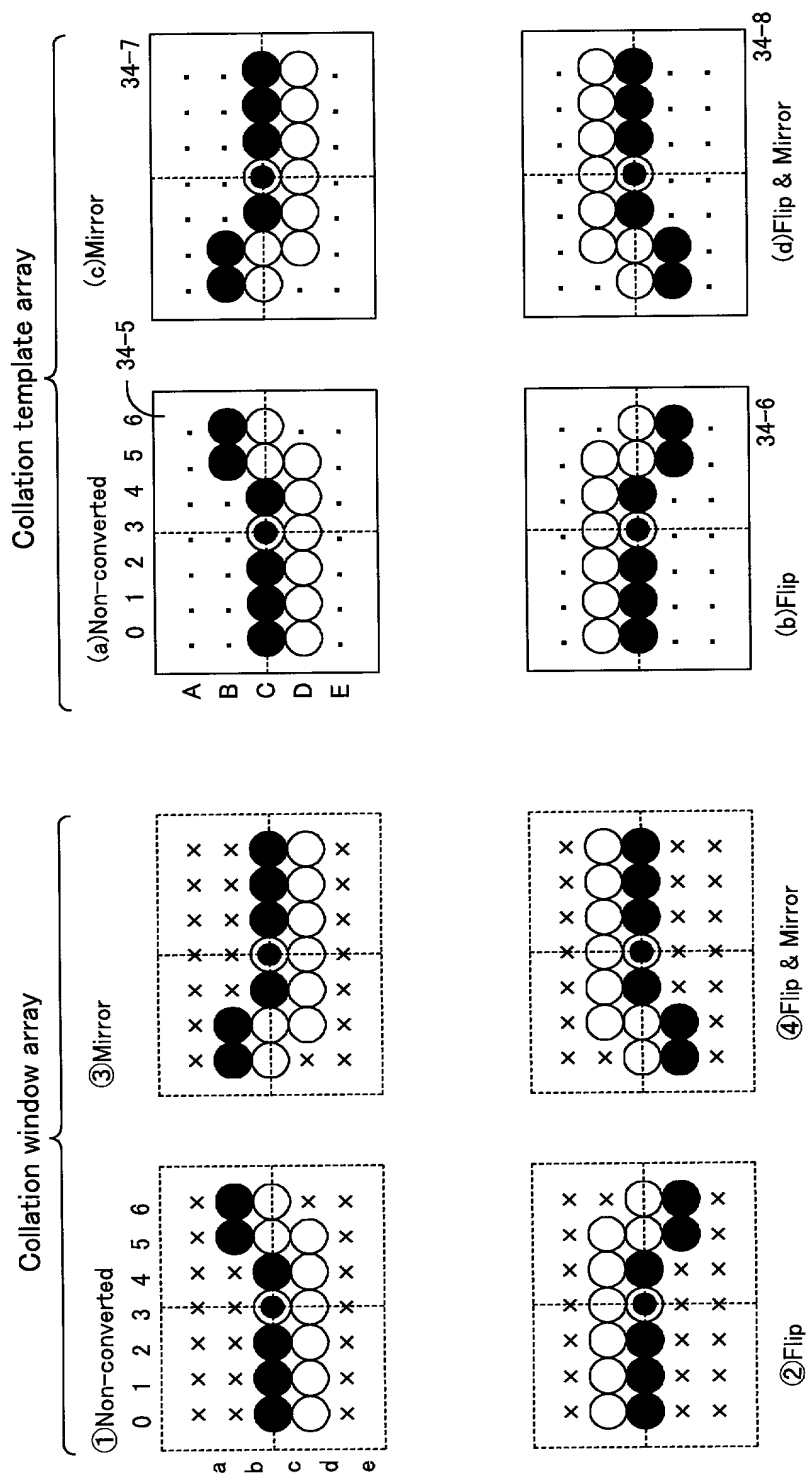


FIG. 11

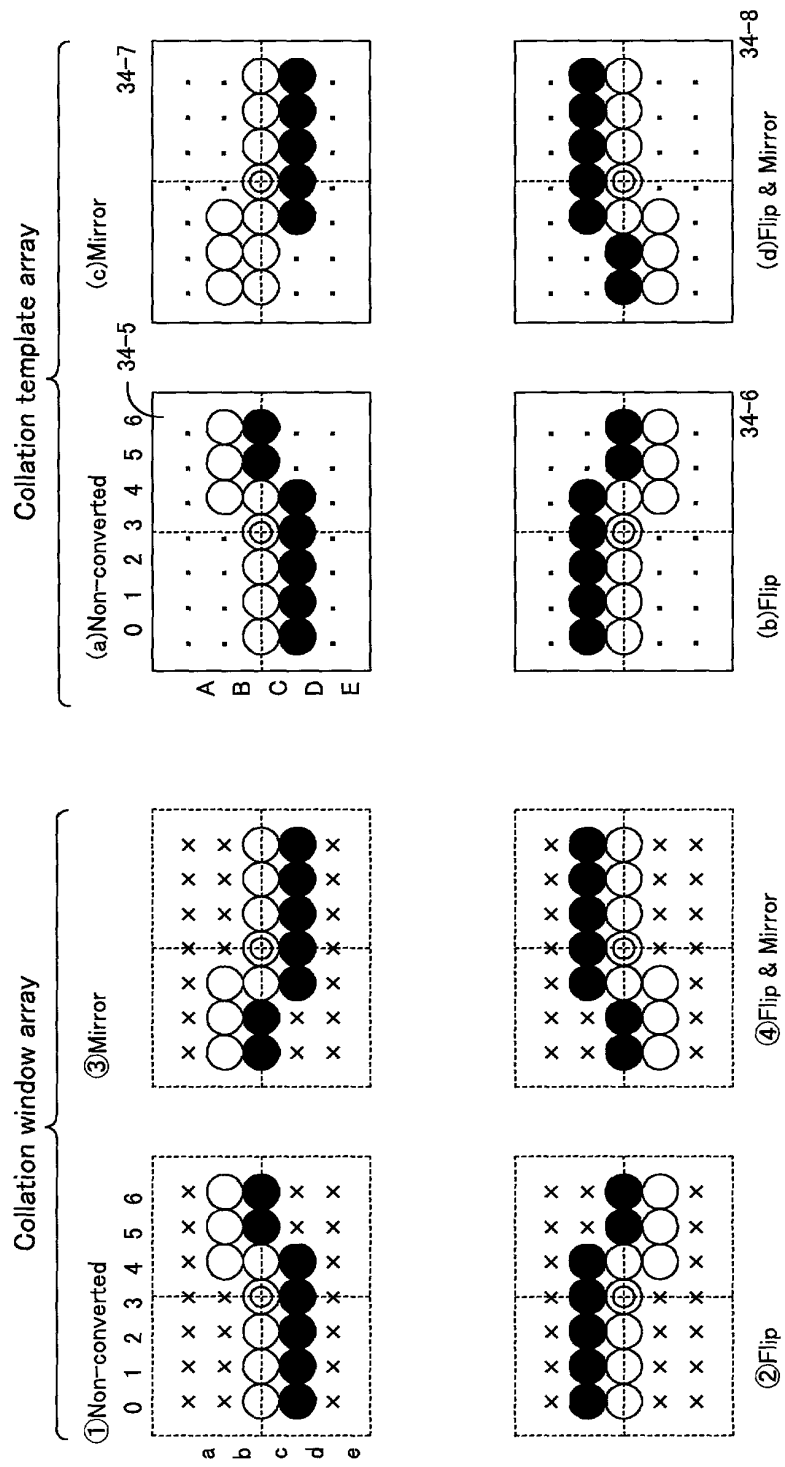


FIG. 12

Window shift timing output⑥

Window output data①

Left dot(2,C)

Current dot of interest(3,C)

Right dot(4,C)

Collation timing signal

Continuous pattern

Discontinuous mark pattern

Discontinuous space pattern

Flip mode signal 1⑧

Flip mode signal 1⑧'

Template collation process

Continuous pattern(Non-converted)

(Mirror)

(Flip)

(Mirror & Flip)

Discontinuous mark pattern
(Non-converted)

(Mirror)

Discontinuous mark pattern
(Non-converted)

(Mirror)

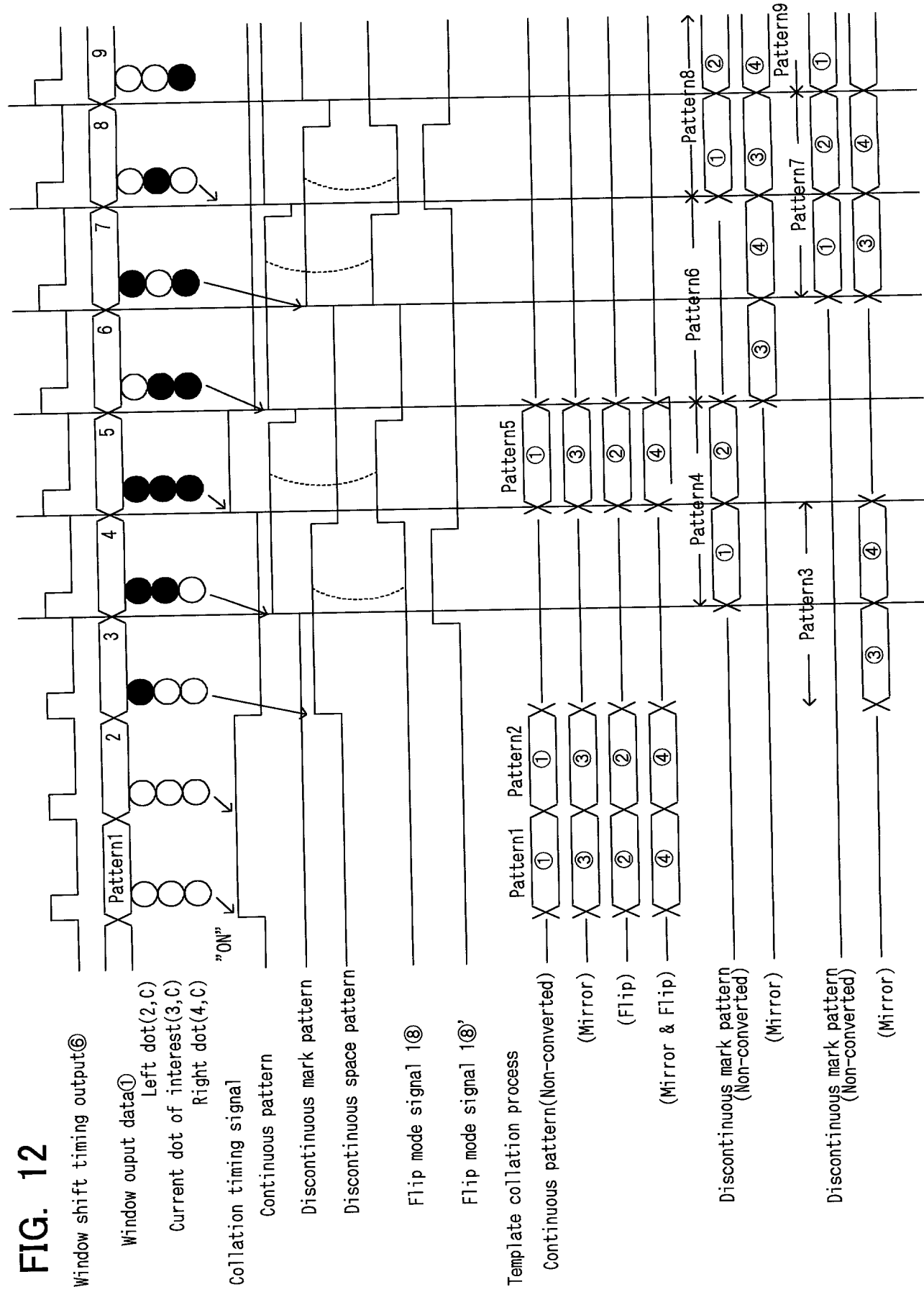


FIG. 13

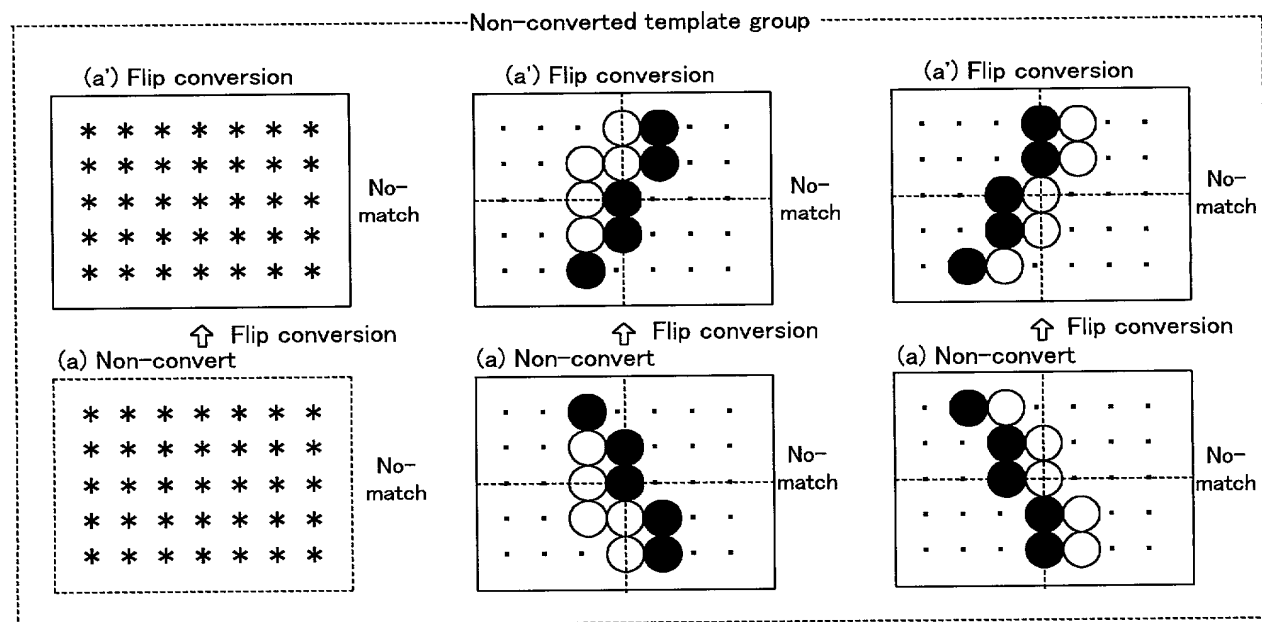
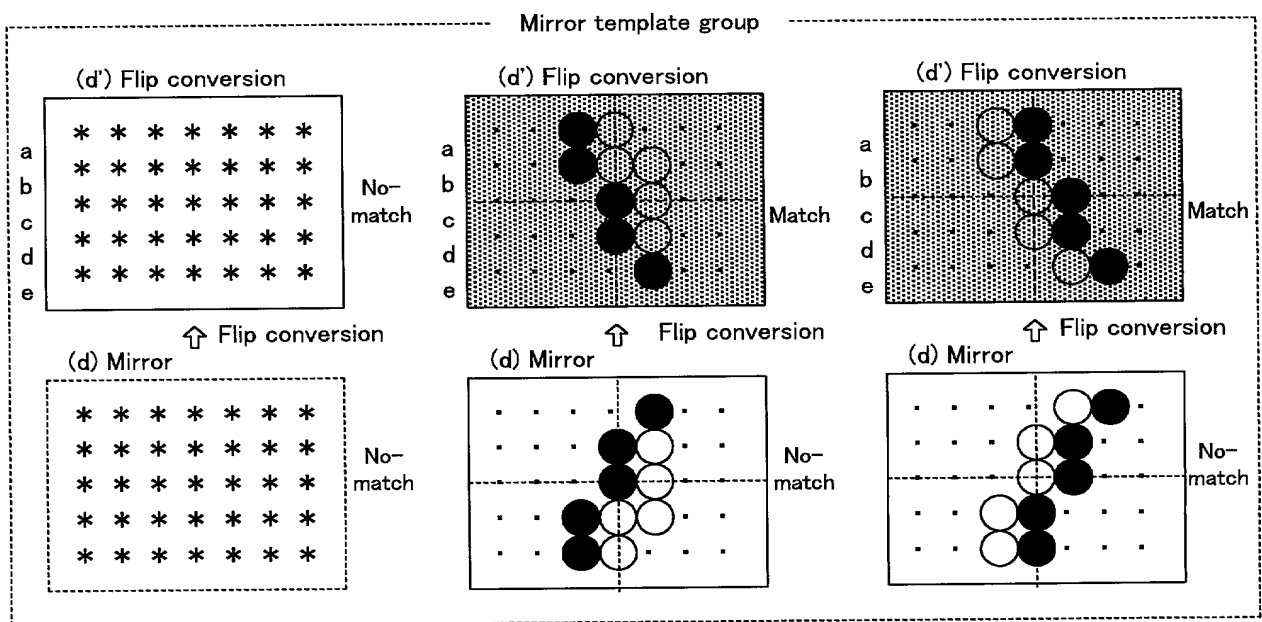
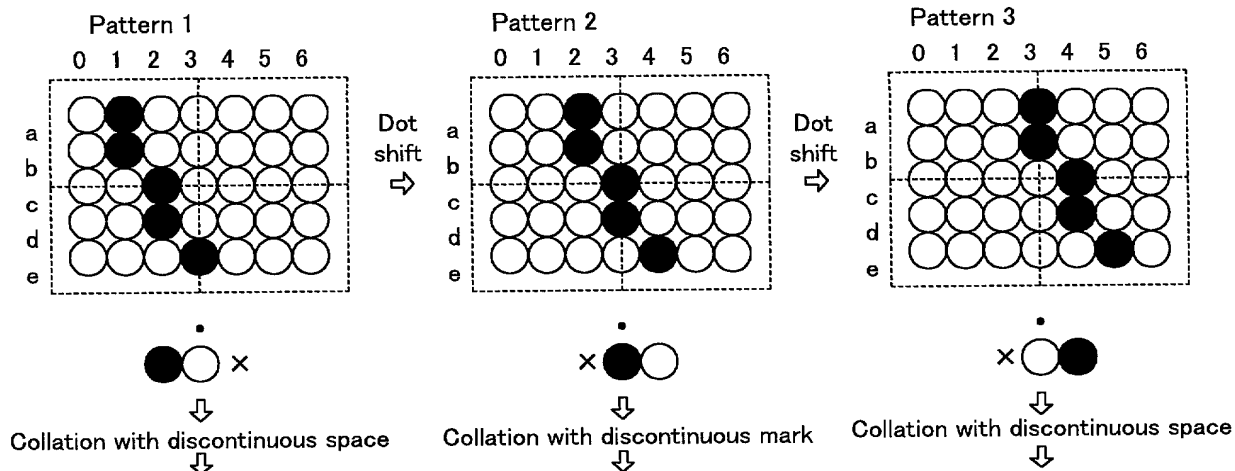


FIG. 14

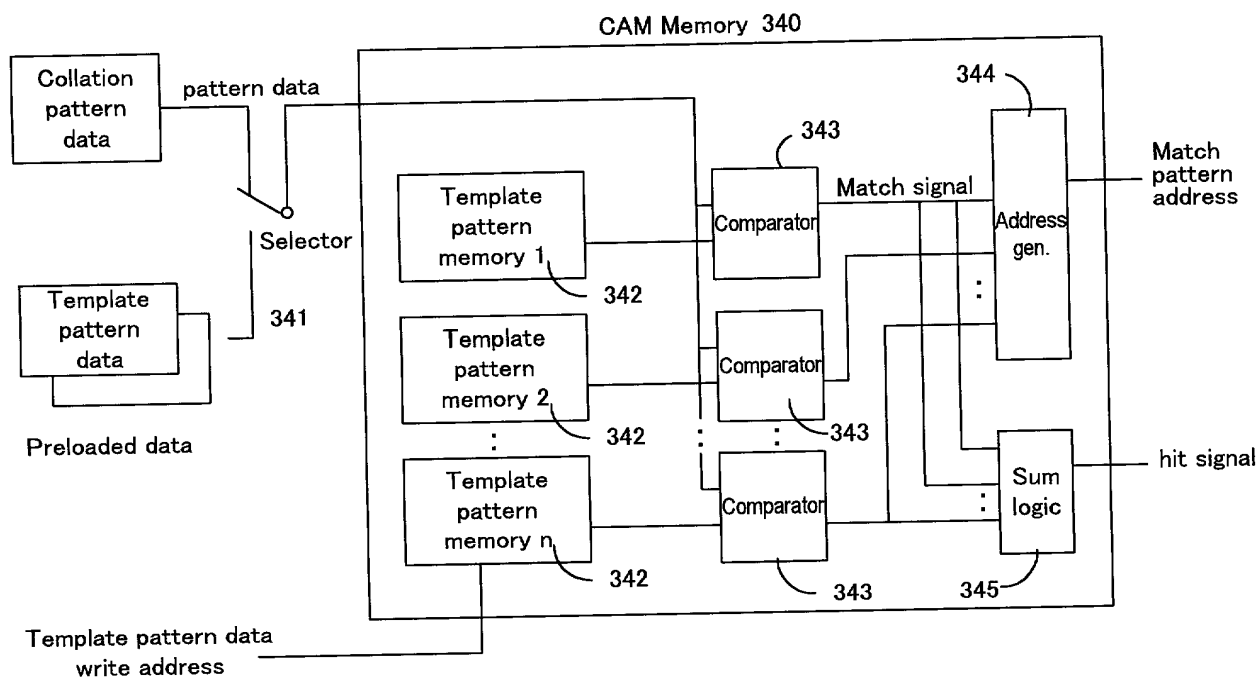


FIG. 15

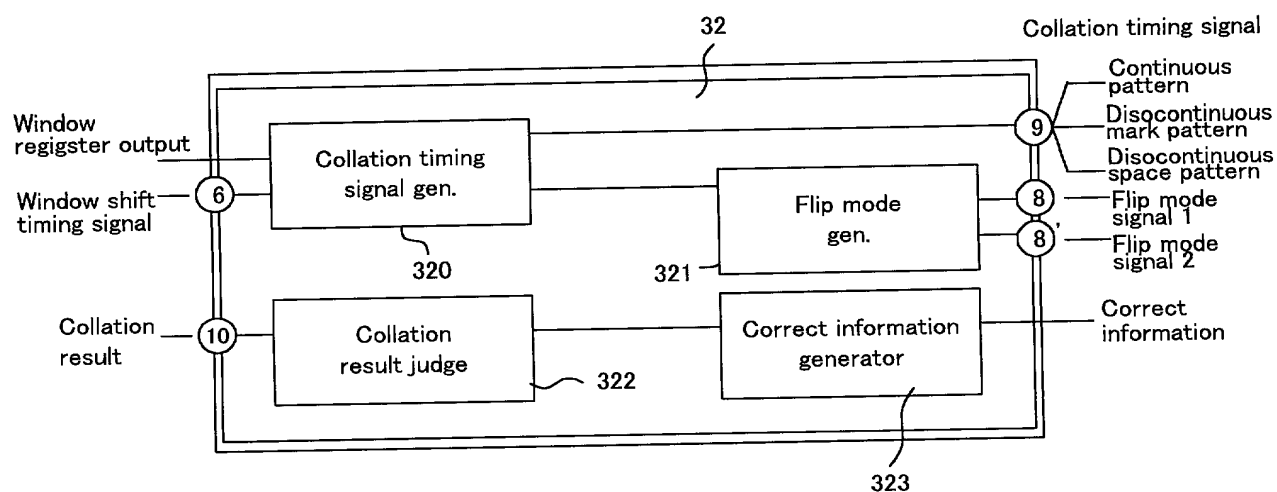


FIG. 16

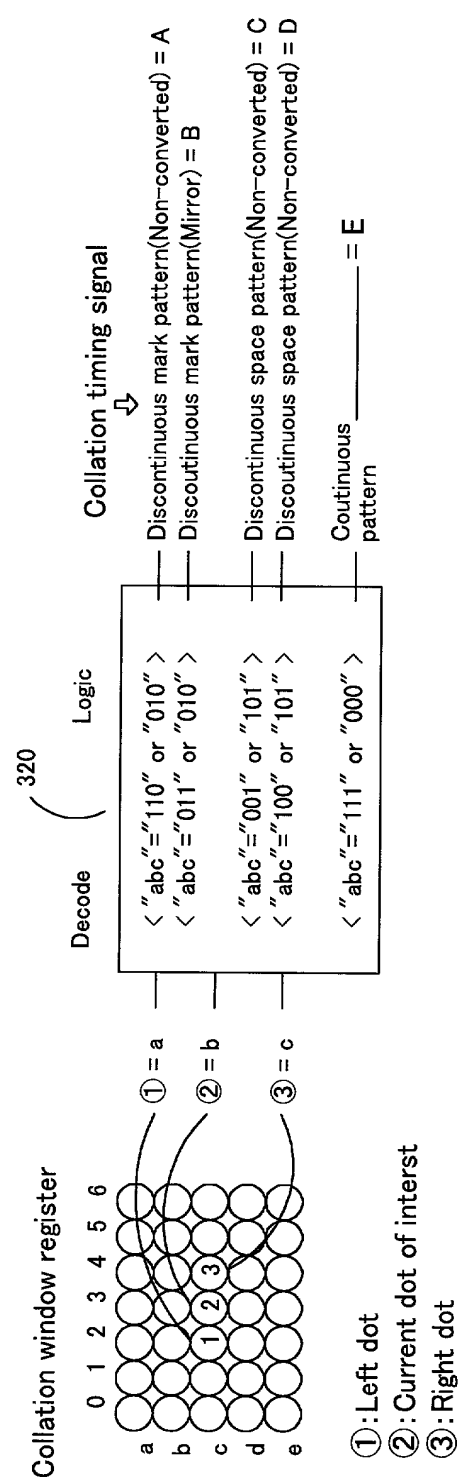


FIG. 17

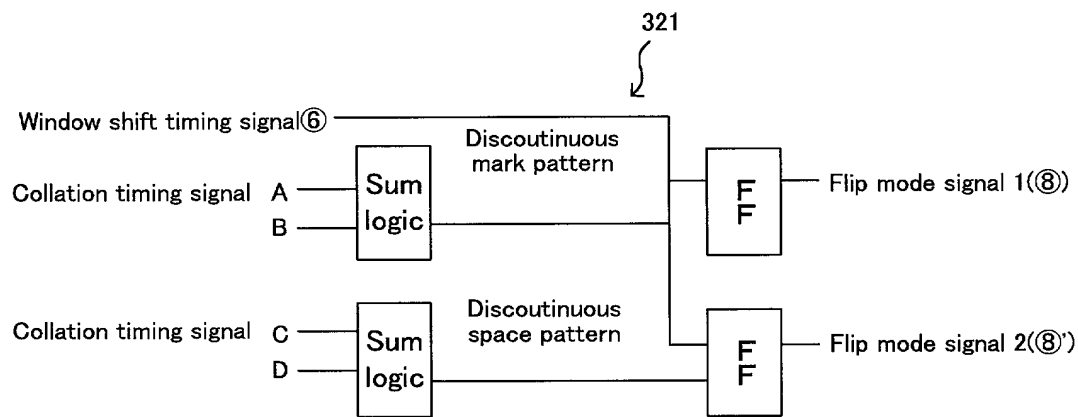


FIG. 18

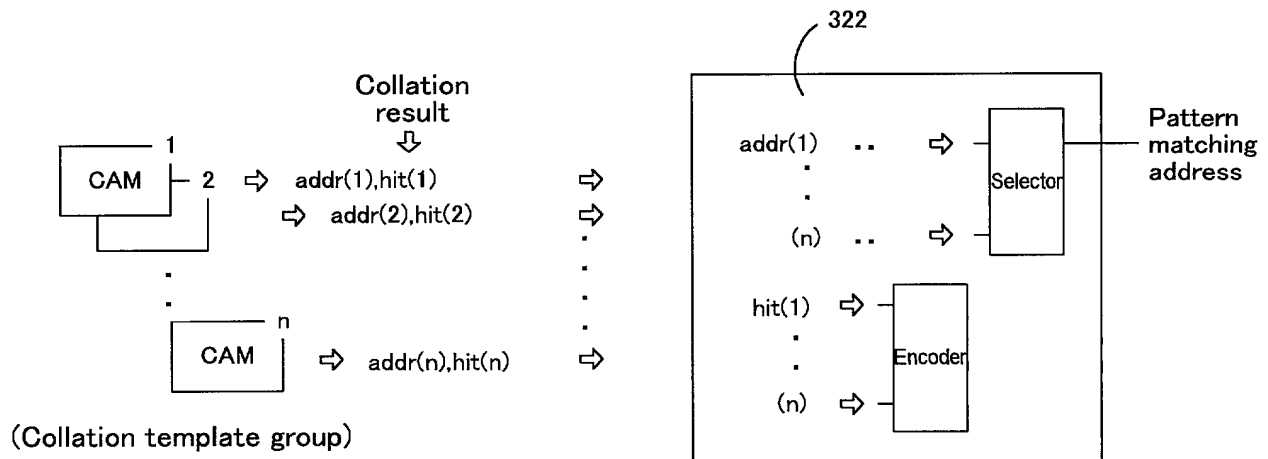


FIG. 19

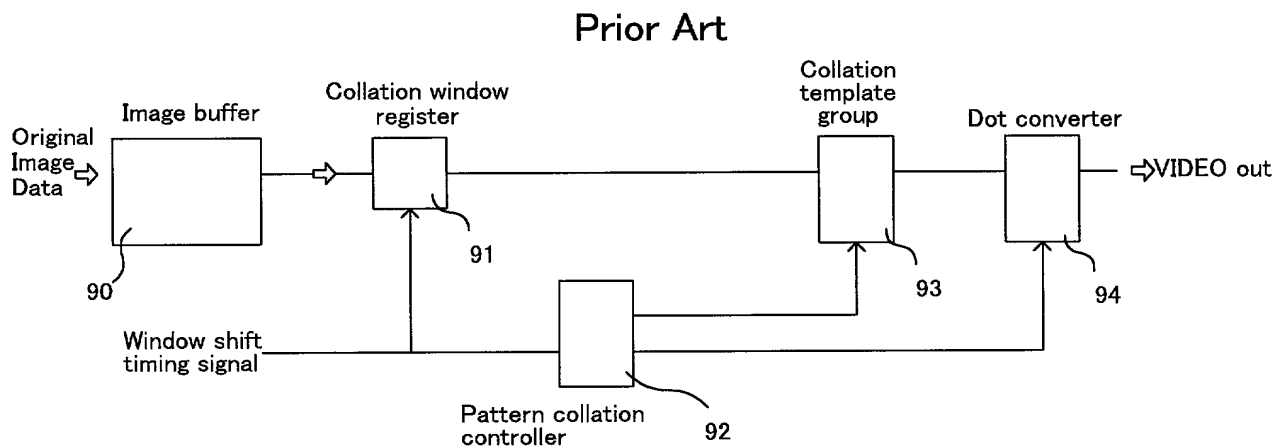


FIG. 20

